

Ch 9 "Quest"

Translations

- $(x,y) \Rightarrow (x + a, y + b)$
- By vector
- Component form

Reflections

- x-axis $(a,b) \Rightarrow (a, -b)$
- y-axis $(a,b) \Rightarrow (-a, b)$
- $y=x$ $(a,b) \Rightarrow (b, a)$
- $y = -x$ $(a,b) \Rightarrow (-b, -a)$
- horizontal and vertical lines

Rotations

- 90 $(a,b) \Rightarrow (-b, a)$
- 180 $(a,b) \Rightarrow (-a, -b)$
- 270 $(a,b) \Rightarrow (b, -a)$
- Images not on coordinate plane

Dilations

- About the origin
- About random point

Composition of transformations

- parallel lines (double distance)
- intersecting lines (double the angle)